

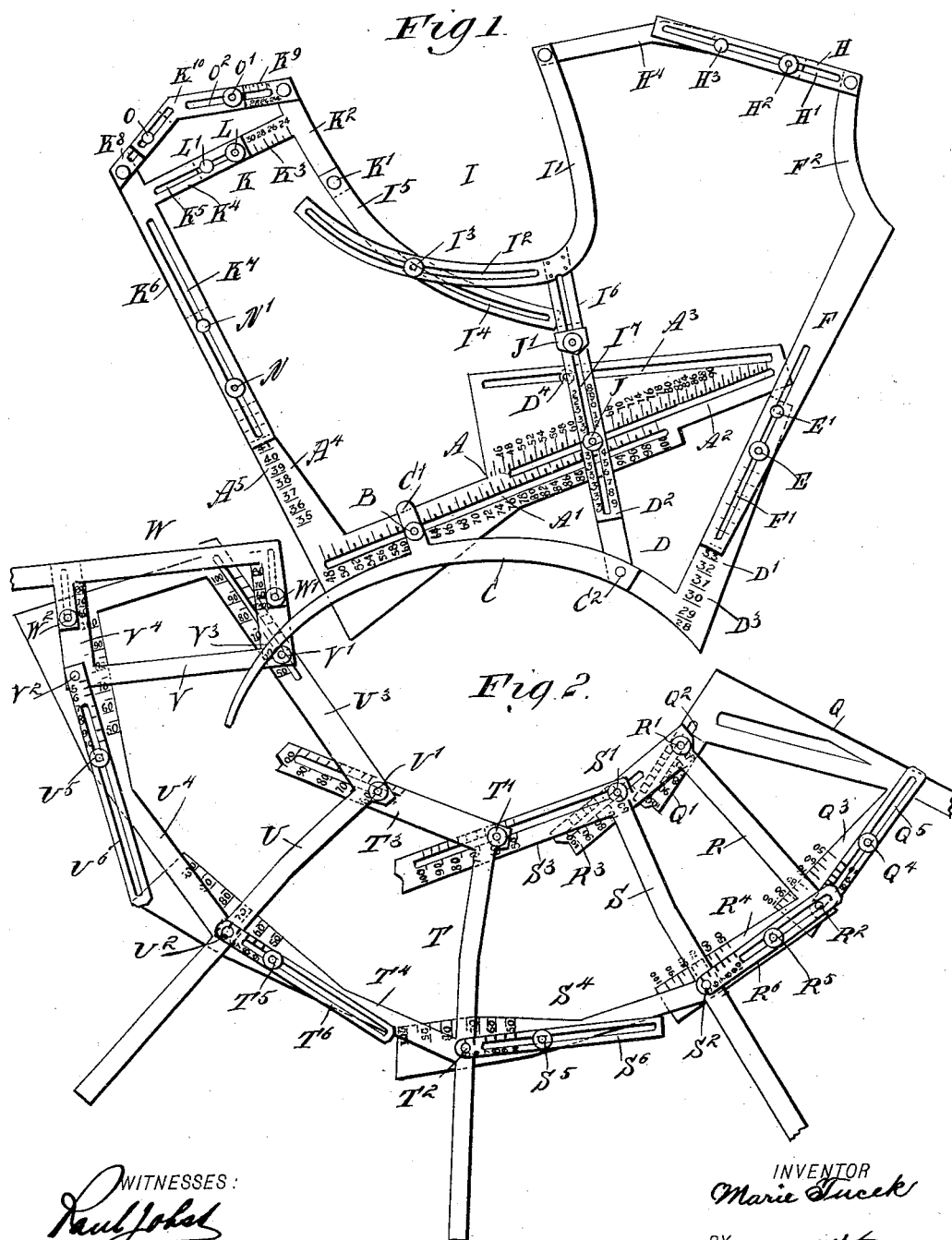
(No Model.)

2 Sheets—Sheet 1.

M. TUCEK.
GARMENT DRAFTING PATTERN.

No. 600,050.

Patented Mar. 1, 1898.



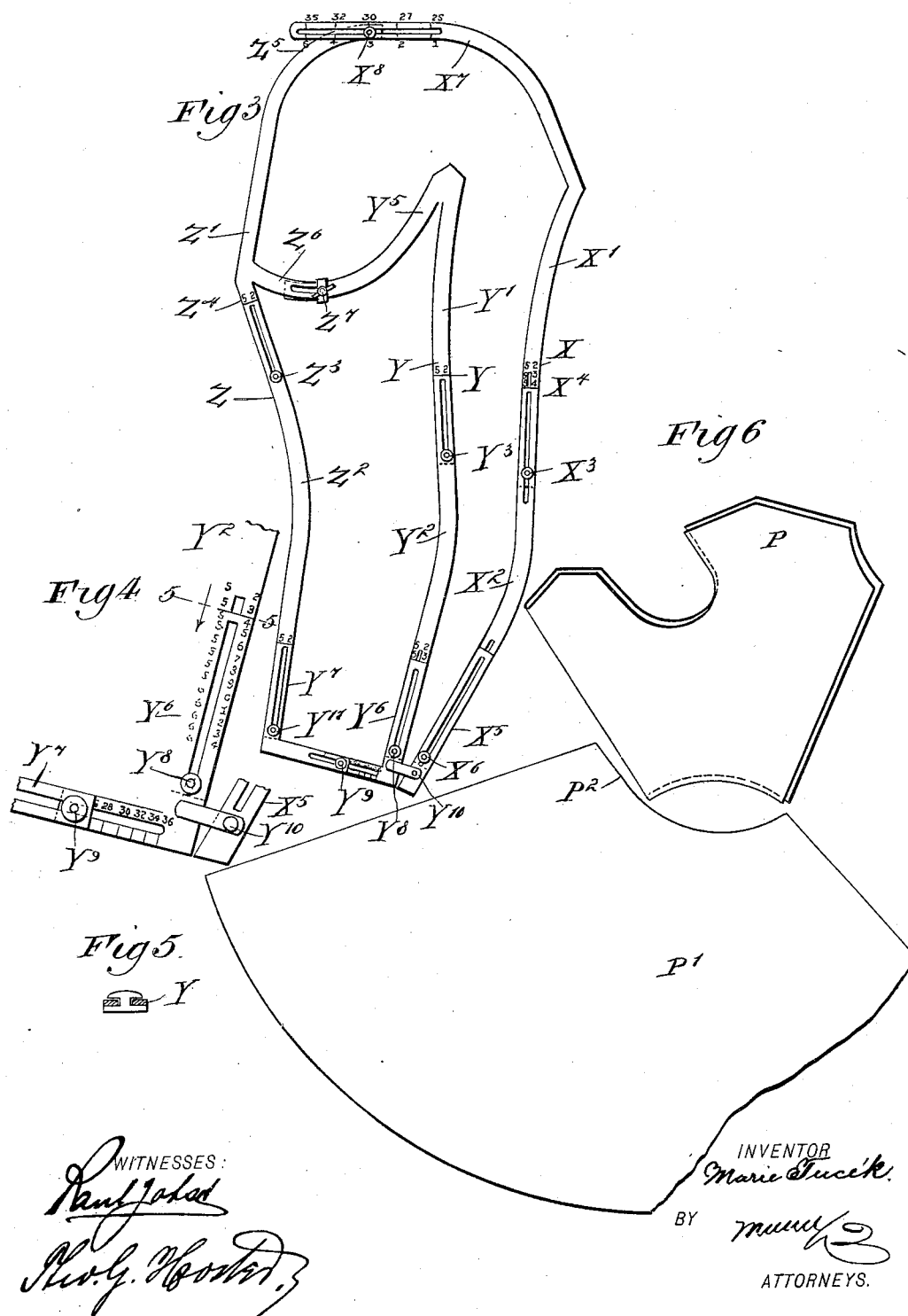
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2 Sheets—Sheet 2.

No. 600,050.

Patented Mar. 1, 1898.



UNITED STATES PATENT OFFICE.

MARIE TUCEK, OF NEW YORK, N. Y.

GARMENT-DRAFTING PATTERN.

SPECIFICATION forming part of Letters Patent No. 600,050, dated March 1, 1898.

Application filed March 24, 1897. Serial No. 629,045. (No model.)

To all whom it may concern:

Be it known that I, MARIE TUCEK, of the city, county, and State of New York, have invented a new and Improved Garment-Drafting Pattern, of which the following is a full, clear, and exact description.

The object of the invention is to provide a new and improved garment-drafting pattern more especially designed for conveniently, quickly, and accurately drafting the outlines for ladies' seamless waists and skirts having but a single seam in the body.

The invention consists principally of a waist-pattern provided with an angular base, a waist-arm held adjustably thereon and pivotally connected with a slide held adjustably on the base, and a front arm held adjustably on the said slide, an arm-scye having two adjustable members, of which one is adjustable on the said slide and is connected by links with the said front arm, the other scye member being connected with the shoulder-measuring device connected with the back arm held adjustably on the base.

The invention also consists of certain parts and details and combinations of the same, as will be fully described hereinafter and then pointed out in the claims.

Reference is to be had to the accompanying drawings, forming a part of this specification, in which similar characters of reference indicate corresponding parts in all the figures.

Figure 1 is a plan view of the pattern for the waist. Fig. 2 is a similar view of the pattern for the skirt. Fig. 3 is a like view of the pattern for the sleeve. Fig. 4 is an enlarged plan view of part of the same. Fig. 5 is a transverse section of the same on the line 5 5 of Fig. 4, and Fig. 6 is a plan view of the blanks for the waist and skirt cut according to the pattern.

The improved garment-drafting pattern is provided with a pattern for drafting ladies' waists, and this pattern, as shown in Fig. 1, is provided with an angular base A, formed with two parallel slots A' and A² and with graduations in centimeters along the edges of the said slots, the graduations indicating the size of the lady's waist, and a third slot A³ is likewise formed on the base A at an angle to the parallel slots A' A'. In the slot A' is held adjustably a clamping-screw B, en-

gaging a lug C' on the curved waist-arm C, on the outer edge of which is drawn the outline for the waist proper. The free end of the arm C is pivotally connected at C² with a slide D, preferably made U-shaped, with the two side members D' D² extending outwardly and with the member D² reaching over the base A. The outer member D' is provided with a graduation D³ in centimeters and indicating the front measurement from the neck to the waist. On this member D' is held a clamping-screw E, extending through a slot F', formed in the front arm F and held slidably on the member D' to indicate at its lower edge on the graduation D³ the size of the lady's waist. The parallel movement of this arm F is obtained on the member D' by a pin E', held on the outer end of the member D' and engaging the slot F'. The extreme outer end of the arm F is formed with a curved offset F² for drafting the front portion of the neck, and the outer end of this offset is pivotally connected with a link H, having a slot H', engaged by a clamping-screw H² and by a fixed pin H³, both held on a link H⁴, pivotally connected with the member I' of the scye-pattern I. The member I' is provided with a slot I², engaged with a clamping-screw I³, also engaging a slot I⁴ in the other member I⁵ of the said pattern I. An arm I⁶ extends rigidly from the scye member I' and is provided with a slot I', engaged by a clamping-screw J, held adjustably in the slot A², previously mentioned, and provided with a guiding-sleeve J', held on the outer end of the member D² of the slide D. The member D² is provided at its end with a pin D⁴, engaging the angular slot A³ in the base, so that when the slide is shifted sideways the member D² moves laterally, owing to the pin D⁴ traveling in the slot A³.

The member I⁵ is provided with graduation corresponding to the graduation D³ and set at the clamping-screw J to the same number as that indicated by the lower end of the arm F on the graduation D³.

The upper end of the member I⁵ of the scye-pattern I is pivotally connected at K' with a T-shaped arm K² of the shoulder-measuring device K, and the member K³ of the said arm K² is provided with a graduation in centimeters to indicate the shoulder measurement at the back of the person to whom the garment

is to be fitted. A clamping-screw L and a pin L' are held on the arm K³ and engage a slot K⁵ in a member K⁴, projecting at right angles from the back arm K⁶, formed with a slot K⁷, engaged by a clamping-screw N and a pin N', both held on the angular offset A⁴ of the base A. The latter is provided on the offset A⁴ with a graduation A⁵ in centimeters and on which registers the lower edge of the arm K⁶ to indicate the length of the back from the neck to the waist.

The arm K⁶ is pivotally connected at its extreme outer end by a link K⁸ with a V-shaped bar K¹⁰ having slots, of which one is engaged by a pin O on the link K⁸ and by a clamping-screw O' and slot O² with a link K⁹ on the T-shaped arm K². This link K⁹ is provided with a graduation similar to the graduation on the member K³ to indicate the shoulder-to-shoulder measure or the width of the back of the garment.

Now in using this device the scye clamping-screws are loosened and the waist measure of the person is first taken in centimeters. The clamping-screw B is then shifted in the slot A' to the corresponding number on the graduation along this slot. The clamping-screw J is similarly moved along the slot A² to the same number. The next measurement taken on the person is the front measure from the neck to the waist, and this is indicated on the graduation D³ by the lower edge of the arm F, shifted laterally on the member D³ and then fastened in place by the clamping-screw E. The back measurement for the length of the garment at the back is then taken and the arm K⁶ is shifted to indicate with its lower edge on the corresponding number on the graduation A⁵. The clamping-screw N is then fastened and the measurement from shoulder to shoulder to give the width of the garment is then taken, and the arms K⁴ and K¹⁰ are adjusted to indicate the corresponding number on the graduations of the member K³ and the arm K⁹. Now it will be seen that by the arrangement described and by the shifting of the arms referred to the remaining arms adjust themselves automatically, and when the measurements have been taken the several clamping-screws are all fastened and the pattern is placed on the doubled-up material with the outer edge of the arm K⁶ along the doubled-up edge of the material. The outline for the blank of the waist is now drawn along the outer edges of the arms, links, &c., and the material is then cut accordingly to form the blank P, as shown in Fig. 6.

The pattern for the skirt is illustrated in Fig. 2 and is provided with a series of arms Q, R, S, T, U, V, and W. The arm Q is provided with an angular member Q', having a graduation in centimeters indicating the waist measure, and in the arm is formed a slot Q², engaged by a clamping-screw R', held on the adjacent arm R. A second member Q³ extends angularly from the arm Q and is

provided with a graduation also indicating the waist measure, and on this member is held a clamping-screw Q⁴, engaging the slotted link Q⁵, having a graduation indicating in yards the length of the lower edge or bottom of the skirt. The link Q⁵ is adjusted so that the corresponding number of its graduation registers with the number of the waist measure—that is to say, if the waist measure is sixty centimeters and the bottom edge of the skirt is to be eight yards the link Q⁵ is adjusted on the member Q³ until the numeral "8" registers with the numeral "60" on the member Q³, it being understood that the arm R is adjusted by the clamping-screw R' on the member Q' of the arm Q to likewise read "60" on the graduation of the said member Q'. The link Q⁵ is pivotally connected with the arm R and R², so that by adjusting the said link Q⁵ on the member Q³ the arm R is correspondingly adjusted relative to the arm Q. The next arm S is similarly arranged to the arm R and similarly adjusted relative thereto, and the same holds true relative to the remaining arms, as they are correspondingly adjusted. The arm R is for this purpose provided with the members R³ and R⁴, of which the member R³ is engaged at its slot by a clamping-screw S' to adjust the arm S on the graduation of the arm R³ to the waist measurement "60", as above given. On the member R⁴ is held a clamping-screw R⁵, engaging the slotted link R⁶, pivoted at S² on the arm S and having a graduation in yards to be adjusted on the graduation in centimeters on the member R⁴—that is, "8" and "60"—as above mentioned relative to the link Q⁵ and member Q³. The arm S has its member S³ connected by the clamping-screw T' with the arm T, and the member S⁴ is provided with a clamping-screw S⁵, engaged by a link S⁶, pivotally connected at T² with the arm T. The graduation on the link S⁶ and the members S³ S⁴ is the same as above described relative to the link Q⁵ and members Q' Q³ of the arm Q. The arm T is in turn provided with the member T³, adjustably connected with the arm U by the clamping-screw U', and on the member T⁴ of the said arm T is arranged a clamping-screw T⁵, engaging the graduated link T⁶, pivotally connected at U² with the arm U. The latter is connected at its member U³ by the clamping-screw V' with the arm V, and the arm U⁴ is provided with a clamping-screw U⁵, engaging the graduated link U⁶, pivotally connected at V² with the arm V. On the members V³ and V⁴ of the arm V are held adjustably the angular projections of the arm W by means of clamping-screws W' and W², and this arm W, with the arm V, is adjusted according to the length indicated for the plaits of the skirt. Now when the several arms are uniformly adjusted, as above described, according to the waist measure and the bottom edge of the skirt the operator places the pattern upon the doubled-up material and draws lines along the edges of the

arms Q, S, T, U, and W to a distance corresponding to the length of the skirt from the waist to the bottom.

The arms S, T, and U are preferably made angular, so as to give two or more sets of lines for wide and narrow skirts.

The outer points thus formed are united with each other by a curved line, as indicated in Fig. 6, the waist-line being drawn along the members Q', R', S', T', and U' of the several arms and sufficiently rounded to properly connect with the waist-line of the blank P, as indicated in the said Fig. 6.

The portion P² on the pattern P' indicates the plaits to be formed by the extra length of material given along the arms V and W, as previously mentioned.

The pattern for the sleeve is illustrated in Fig. 3 and is provided with a series of arms X, Y, and Z, of which the arm X is made in two parts, X' and X², held adjustably one on the other by providing the arm X² with a slot engaged by a clamping-screw X³, carried on the other part X'. A graduation X⁴ in centimeters is arranged on the part X' and on it indicates the upper end of the part X², according to the length of the sleeve as measured on the person. The arm Y is similarly constructed—that is, made in two parts Y' and Y², held adjustably one on the other, and adapted to be fastened one on the other by a clamping-screw Y³, the part Y' being provided with a graduation Y⁴, on which indicates the upper end of the part Y². The arm Z is made with the parts Z' and Z² adjustable one on the other and adapted to be fastened together by a clamping-screw Z³, and the part Z' is provided with a graduation Z⁴, on which indicates the upper end of the part Z². On the lower end of the part X² of the arm X is held adjustably an extension X⁵, adapted to be fastened in place by a clamping-screw X⁶, and the upper end of the arm X' is provided with a fixed extension X⁷, extending laterally to adjustably connect with the upper end Z⁵ of the part Z' of the arm Z. A clamping-screw X⁸ serves to fasten the ends X⁷ and Z⁵ one to the other, and similar connection is made between the arm Y and the arm Z—that is, the part Y' of the arm Y is provided with the angular curved end Y⁵, held adjustably on the extension Z⁶ of the part Z', a clamping-screw Y⁷ serving to fasten the two ends together. On the lower ends of the parts Y² and Z² are held adjustably the L-shaped arms Y⁶ and Y⁷ one on the other, with the arm Y⁶ pivotally connected by a link Y¹⁰ with the extension X⁵. A clamping-screw Y⁸ serves to fasten the angular arm Y⁶ to the part Y², and a set-screw Y⁹ serves to fasten the arms Y⁶ and Y⁷ one on the other, and the set-screw Y¹¹ is used for securing the arm Y⁷ to the part Z². Now it will be seen that by the arrangement described either of the arms X or Y can be laterally adjusted relative to the arm Z, and each of the arms can be lengthwise adjusted rela-

tive to the length of the sleeve to be drafted. The necessary graduations are arranged on all the adjustable parts, so that the measures taken from the person relative to the width and length of the sleeve at different parts of the arm can be readily laid out, so as to bring the arms and their parts into the proper position. It is understood that the arms X and Z, with their connections, are used for the outer part of the sleeve, and the arms Y and Z are used for drafting the inner parts of the sleeve.

Having thus fully described my invention, I claim as new and desire to secure by Letters Patent—

1. A garment-drafting pattern, provided with a waist-pattern comprising an angular base, a slide held adjustably on said base, a waist-arm having sliding engagement with the base and pivotally connected with said slide, a front arm held adjustably on the said slide, a back arm held adjustably on the base, and an arm-sceye having two adjustably-connected members, of which one is adjustable on the slide and is connected by links with the said front arm, the other scye member being connected with the said back arm, substantially as described.

2. A garment-drafting pattern provided with a waist-pattern comprising an angular base provided with parallel slots and a slot arranged obliquely to the parallel slots, a slide held adjustably on the said base and having a pin engaging the said oblique slot, and a clamping-screw engaging one of the parallel slots, a waist-arm pivotally connected with the said slide and adjustably connected by a clamping-screw with the base in the other parallel slot, a front arm held adjustably on the said slide, a back arm held adjustably on the said base, a scye-drafting device made in adjustably-connected members, of which one is held adjustably on the said slide, self-adjusting links for connecting the said device with the front arm, and an adjustable shoulder-drafting device connecting the scye-drafting device with the said back arm, substantially as shown and described.

3. A garment-drafting pattern provided with a skirt-pattern comprising a series of arms, each having members extending therefrom, one arm being held adjustably with one of its members on the corresponding member of the adjacent arm, and a link for adjustably connecting the other member of each arm with the adjacent arm, substantially as shown and described.

4. A garment-drafting pattern provided with a skirt-pattern comprising a series of arms, each having members extending therefrom, one arm being held adjustably with one of its members on the corresponding member of the adjacent arm, a link for adjustably connecting the other member of each arm with the adjacent arm, and plait-arms held adjustably on the outer arm of the said series of

arms to draw the necessary amount of material for the desired plaits, substantially as shown and described.

5 5. A garment-drafting pattern, provided with a skirt-pattern consisting of a series of sections each of which has a longitudinal central member and two transverse substantially parallel members extending from said central member on the same side thereof, the upper
10 and lower transverse members of each section being adjustably connected with the corresponding members of the adjacent sections and forming segmental top and bottom lines in a direction corresponding to the circum-
15 ference or width of the skirt, while the central members of said sections normally radi-

ate in a direction corresponding to the length of the skirt, substantially as described.

6. A garment-drafting pattern, provided with a sleeve-pattern having a plurality of 20 longitudinally-extensible arms, one of said arms being pivoted at one end to an extension or link attached to one end of the adjacent arm, and the ends of all the arms, except the two pivotally-connected ends afore- 25 said, being connected to slide upon each other transversely, substantially as described.

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